

What is claimed is:

1. An end-surface wick structure of a heat pipe, the heat pipe having a pipe member and a bottom lid covering a bottom end of the pipe member, the wick structure comprising at least one woven mesh attached to an internal sidewall of the heat pipe
5 and a sintering powder attached to an internal surface of the bottom lid.
2. The wick structure as claimed in Claim 1, wherein heat pipe comprises a top lid covering a top end of the pipe member.
3. The wick structure as claimed in Claim 2, wherein the heat pipe further comprises a filling tube extending through the top lid.
- 10 4. The wick structure as claimed in Claim 3, wherein heat pipe further comprises a sealing structure sealing filling tube.
5. The wick structure as claimed in Claim 2, the bottom lid is integrally formed with the pipe member.
- 15 6. The wick structure as claimed in Claim 1, wherein the bottom lid includes a planar external surface to be in contact with a heat source.
7. The wick structure as claimed in Claim 1, further comprising a support member installed in the pipe member to press the woven mesh towards the internal sidewall.
- 20 8. The wick structure as claimed in Claim 7, wherein the support member includes a spiral structure.
9. The wick structure as claimed in Claim 7, wherein the support member includes a linear spiral structure.
10. The wick structure as claimed in Claim 7, wherein the support member includes a winded porous plate.
- 25 11. The wick structure as claimed in Claim 1, wherein the pipe member includes a press board for pressing the sintering powder.
12. The wick structure as claimed in Claim 1, wherein the woven mesh is integrated with the sintering powder.
13. The wick structure as claimed in Claim 1, wherein the woven mesh extends

over the internal end surface.